

## **PCT**

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference

PIA30210/ETR	ACTION		smittal of International Search Report well as, where applicable, item 5 below	<i>,</i> .
International application No.	International filing d	ate (day/month/year)	(Earliest) Priority Date (day/mon	th/year)
PCT/KR 03/00628	28 March 200	3 (28.03.2003)	19 November 2002 (1	9.11.2002)
Applicant ELECTRONICS AND	relecommunicat	IONS RESEARCH	INSTITUTE et al.	
according to Article 18. A copy	y is being transmitted to the	International Bureau.	uthority and is transmitted to the a	oplicant 
This international search repor	companied by a copy of eac		I in this report.	
	nguage, the international se t was filed, unless otherwise		he basis of the international applica	ition in the
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	at the subsequently furnished tion as filed has been furnish		g does not go beyond the disclosure	e in the
the statement the been furnished.	at the information recorded	in computer readable for	m is identical to the written sequen	ce listing has
2. Certain claims	were found unsearchable	(See Box I).		
3. Unity of invent	tion is lacking (See Box II).			
4. With regard to the title,				
the text is appro	oved as submitted by the app	olicant.		
the text has bee	n established by this Author	rity to read as follows:		
5. With regard to the abstra	·			
the text is appro	oved as submitted by the app	plicant.		
			nority as it appears in Box III. The ch report, submit comments to this	
6. The figure of the drawin	gs to be published with the	abstract is Figure No.: _	5	
as suggested by	the applicant.		None of the figure	RECEIVED
because the app	olicant failed to suggest a fig	gure.		2004. 1. 2 9
because this fig	gure better characterizes the	invention.		FIRST LAW
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International application No. PCT/KR 03/00628-0

Box III TEXT OF THE ABSTRACT (Continuation of item 5 of the first sheet) An apparatus for protecting legitimate traffic from DoS and DDoS attacks has a highpriority (505) and a low-priority (506) queue. Besides, a queue information table (402) has STT (source-based Traffic Trunk) service queue information of a specific packet. A queue coordinator (502) updates the queue information table (502) based on a load of a provided STT and a load of the high-priority queue (505). a packet classifier (504) receives a packet from the network access unit (508), investigates an STT service queue of the packet from the queue information table (502), selectively transfers the packet to the high-priority (505) or the low-priority (506) queue and provides information on the packet to the queue coordinator (503). A buffer (507) buffers outputs of the high-priority (505) and the lowpriority (506) queue and provides outputs to the network (509) to be protected.



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CLA	SSIFICATION OF SUBJECT MATTER		
IPC <sup>7</sup> : H	04L 12/56		
According	to International Patent Classification (IPC) or to both nati	onal classification and IPC	
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	documentation searched (classification system followed b	y classification symbols)	
IPC <sup>7</sup> : H	04L ation searched other than minimum documentation to the	extent that such documents are included in	the fields searched
Document	ation searched other than minimum documentation to the	extent that such documents are included in	i tile fields scarefied
Electronic	data base consulted during the international search (name	of data base and, where practicable, searc	h terms used)
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WPI, E	PODOC, PAJ, Elsevier, IEE, IEEE, IEE	EXplore	
C. DOO	CUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document, with indication, where appropriate,	of the relevant passages	Relevant to claim No.
X	Li S, Bhargava B. 'Active gateway: a fa	cility for video conferencing	1-15
	traffic control.' In: Computer Software a		
	Conference, 1997. COMPSAC '97. Pro	oceedings., The Twenty-	
	First Annual International Washington,	DC, USA 13-15 Aug. 1997,	
	Los Alamitos, CA, USA, IEEE Comput. pages: 308-311.	300, 03.	·
	pages. 500-511.		
X	Jun Xu, Singhal M, Degroat J. 'A novel		1-15
	support layer-four packet classification		
	In: INFOCOM 2000. Nineteenth Annua		
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	pages 1445-1454.		
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	ther documents are listed in the continuation of Box C.	See patent family annex.	ria al filia e data an mioritu
	al categories of cited documents: ment defining the general state of the art which is not	"T" later document published after the interna date and not in conflict with the application	
consid	dered to be of particular relevance r application or patent but published on or after the international	the principle or theory underlying the inve "X" document of particular relevance; the clai	
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	he actual completion of the international search	Date of mailing of the international search	
	26 November 2003 (26.11.2003)	21 January 2004 (21	.01.2004)
	nd mailing adress of the ISA/AT	Authorized officer	
	an Patent Office	MESA PASCAS	SIO J.
	ner Straße 87, A-1200 Vienna le No. 1/53424/535	Telephone No. 1/53424/327	
	T/(S \ /210 (cacand cheet) (luly 1998)	receptione No. 11337271021	

## INTER TIONAL SEARCH REPORT Information on patent family members

International application No.
PCT/KR 03/00628-0

Patent document cited in search report	Publication date	Patent family member(s)	Publication date		
A	none				
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